

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) An FM-CW radar apparatus comprising: using
a traveling wave antenna as a transmitting antenna, and ~~comprising~~
a means for varying the frequency of transmitted waves radiated from said traveling wave
antenna,
wherein the projection tilt angle of a combined beam pattern of the transmitted waves is
varied in upward/downward directions by varying the frequency of the ~~projection angle of a~~
~~combined beam pattern of a transmitted wave~~ waves radiated from said traveling wave antenna.
2. (Cancelled)
3. (Currently amended) ~~An~~ The FM-CW radar apparatus as claimed in claim 1
[[2]], wherein said means for varying the frequency of ~~said~~ transmitted waves ~~wave~~ varies said
frequency by varying a modulating voltage to be input to a voltage-controlled oscillator that
outputs said transmitted waves ~~wave~~.
4. (Currently amended) ~~An~~ The FM-CW radar apparatus as claimed in claim 1
[[2]], wherein said means for varying the frequency of said transmitted waves ~~wave~~ includes a
means for switching a ~~said~~ modulating voltage to be input to a ~~said~~ voltage-controlled oscillator
that outputs said transmitted waves ~~wave~~, and wherein the frequency of said transmitted waves
~~wave~~ is switched between an upper band region and a lower band region by switching said
modulating voltage.

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5. (Cancelled)

6. (Cancelled)